From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

CHARLES E. STEFFEY SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH P.O. BOX 2938

PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing (day/month/year)

JUN 20115

Applicant's or agent's file reference

International application No.

MINNEAPOLIS, MN 55402

1662.004WO1

International filing date (day/month/year)

IMPORTANT NOTIFICATION Priority date (day/month/year)

PCT/US03/40806

19 December 2003 (19.12.2003)

20 December 2002 (20.12.2002)

Applicant

NATIONAL INSTITUTES OF HEALTH

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Mail Stop PCT, Attn: IPEA/ US Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230 Form PCT/IPEA/416 (July 1992)

Authorized officer

Dr. Kailash C. Srivastava 7. Roberto for

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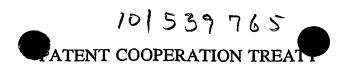
Schwegman, Lundberg

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INTERNATIONAL PRELIMINARY EXAMINATION REPORTING

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(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION		on of Transmittal of International	
1662.004WO1			ixamination Report (Form PCT/IPEA/416)	
International application No.	International filing date (day/mo	nth/year)	Priority date (day/month/year)	
PCT/US03/40806	19 December 2003 (19.12.2003)	20 December 2002 (20.12.2002)	
International Patent Classification (IPC)	or national classification and IPC			
IPC(7): C12Q 1/04; C12N 1/00, 1/20, 1 253.6; 436/501, 536, 539	/36, 1/38, 13/00; G01N 33/536,	33/539, 33/566 a	and US C1.: 435/34, 173.4, 243, 244, 245,	
Applicant				
NATIONAL INSTITUTES OF HEALT.	H			
Examining Authority and	is transmitted to the applicant	according to A		
2. This REPORT consists of	a total of 4 sheets, includ	ing this cover s	sheet.	
which have been ame	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).			
		itamas		
3. This report contains indica	ations relating to the following	items;		
I Basis of the rep	ort			
II Priority	II Priority			
III Non-establishm	ent of report with regard to no	velty, inventive	e step and industrial applicability	
IV Lack of unity o	IV Lack of unity of invention			
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain docume	VI Certain documents cited			
VII Certain defects	VII Certain defects in the international application			
VIII Certain observations on the international application				
Date of submission of the demand	Date	of completion	of this report	
20 July 2004 (20.07.2004)	18 N	1ay 2005 (18.05	.2005)	
Name and mailing address of the IPEA/US		orized officer	40111	
Mail Stop PCT, Atm: IPEA/ US Commissioner for Patents P.O. Box 1450	Dr.	Kailash C. Srive	astava 7. Koluar 45	
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Telephone No. (571)272-1		astava F. Roberts for		

Form PCT/IPEA/409 (cover sheet)(July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Internation	pplication No.	
PCT/US03/4	10806	

I.	Bas	is of the report
1.	With	regard to the elements of the international application:*
	\boxtimes	the international application as originally filed.
	\boxtimes	the description:
		pages 1-35 as originally filed
		pages NONE filed with the demand
	∇	pages <u>NONE</u> , filed with the letter of
		the claims:
		pages 36-41 , as originally filed pages NONE as amended (together with any statement) under April 10
		pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand
		pages NONE , filed with the letter of
	\boxtimes	the drawings:
	بدسكا	pages 1-4, as originally filed
		pages NONE , filed with the demand
		pages NONE , filed with the letter of
		the sequence listing part of the description:
	_	pages NONE , as originally filed
		pages NONE , filed with the demand
2	337;e1	pages NONE , filed with the letter of
۷.	lang	n regard to the language, all the elements marked above were available or furnished to this Authority in the uage in which the international application was filed, unless otherwise indicated under this item.
	Thes	se elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	Ħ	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)).
	Ħ	• • •
	لــا	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3.	With	n regard to any nucleotide and/or amino acid sequence disclosed in the international application, the
	inter	national preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
	\square	filed together with the international application in computer readable form.
	Ц	furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
	Ш	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
		international application as filed has been furnished.
	Ш	The statement that the information recorded in computer readable form is identical to the written sequence listing
		has been furnished.
4.	\bowtie	The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
		the drawings, sheets/fig NONE
5		
٥.	ш	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
*]	Repla	cement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in
ицэ	ι ερυί	it as originally filed and are not annexed to this report since they do not contain amendments. Rules 70.16 and 70.17
		eplacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

Form PCT/IPEA/409 (Box I) (July 1998)



Internation	pplication No.	
PCT/US03/4	0806	

II. Priority			
1.	This report has been established as if no priority has been claimed due to the failure to furnish within the prescribed time limit the requested:		
	copy of the earlier application whose priority has been claimed (Rule 66.7(a)).		
:	translation of the earlier application whose priority has been claimed (Rule 66.7(b)).		
2.	This report has been established as if no priority has been claimed due to the fact that the priority claim has been found invalid (Rule 64.1).		
Thus for t	he purposes of this report, the international filing date indicated above is considered to be the relevant date.		
3. Addition Applicants	onal observations, if necessary: s Claim to priority for U.S. Provisional Serial Number 60/435,639 filed 20 December 2002 is acknowledged.		
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Form PCT/IPEA/409 (Box II) (July1998)



International pp	lication	No.
PCT/US03/4080		

 V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 			
1. STATEMENT			
Novelty (N)	Claims	1-61	_YES
	Claims	NONE	_NO
Inventive Step (IS)	Claims	NONE	_YES
,	Claims	1-61	_NO
Industrial Applicability (IA)	Claims	1-61	_YES
	Claims	NONE	_NO

2. CITATIONS AND EXPLANATIONS

Claims 1-61 lack an inventive step under PCT article 33 (3) as being obvious over Feldsine et al. (U.S. Patent 6,379,918) in view of Bochner (U.S. Patent 6,136,554). Feldsine et al. teach a culture medium among tryp soy broth (i.e., TSB), SOB, NZCYM, brain heart infusion, nutrient broth among others to selectively isolate/ detect presence of Salmonella or entero-hemorrhagenic Escherichia coli in presence of other pathogenic bacteria. (Abstract, Column 3, Lines 52-65; Column 4, Lines 21-24). Feldsine et al. further teach adding specific selection components (e.g., phage or chromogens) to selectively isolate enteropathogenic organisms (e.g., Escherichia coli and Salmonella) from environmental, water and body fluid samples (Column 9, Lines 4-8 and Lines 40-45). Feldsine et al., however, do not explicitly elaborate on each and every component of each of selective culture media, an antibiotic supplemented culture media or media comprising specific chromogens or selective agents (e.g., tellurite, tetrathionate, sorbitol, other organic and inorganic salts) to specifically isolate Salmonella species and Escherichia coli 0157:H7 isolates. Bochner teaches specific components for a variety of culture media that comprise specific selective agent, i.e., tellurite, selenite, sorbitol, tetrathionate, antimicrobials or antibiotics (e.g., novobiocin or propionic acid or other microorganism retarding agents, oxgall) and inorganic and organic (e.g., proteose peptone, yeast extract, enzymes or enzyme detecting substrates) components (Abstract; Column 19, Lines8-64; Column 22, Lines 22-59; Column 224, Lines 8-42; Column 25, Lines 5-1; Lines 54-67, Column 31, Lines 28-39; Tables 11-4 and Column 53, Lines 1-32).

Thus, at the time, the claimed invention was made, it would have been obvious to an artisan of ordinary skill in the art to combine the teachings from Feldsine et al. with those of Bochner to selectively isolate Salmonella, Entero-hemorrhoagenic Escherichia coli or Escherichia coli O157: H7from food, environmental, body fluid or water samples comprising a variety of competitive microorganisms on a variety of selective culture media. Said culture media are comprised of a number of organic or inorganic nutrients, selective agents described above, wherein selective agents are inorganic salts, bile salts, chromogens, phages and antimicrobial agents/antibiotics constituted in a selective culture medium such as nutrient broth or supplemented to known commercially available selective media (e.g., brain heart infusion, TSB, SOB, NZCYM). In view of the fact that the applicant's invention also recites a composition comprising the same ingredients as those taught in Examiner cited prior art references, applicant's invention is obvious over the teachings of Examiner-cited prior art references and therefore dies not have an inventive step.

Claims 1-61 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.